

## SECTION 146

### WOOD PRESERVATIVES

#### 146.1 GENERAL

146.1.1 This work shall consist of treating lumber, timber, and piling. Lumber, timber, and piling to be treated shall conform to the requirements of the various sections of these specifications specifying these materials.

146.1.2 Where practical, lumber to be treated shall be cut to size and framed prior to treatment, unless indicated otherwise on the drawings. Proper allowance for shrinkage in the sizes of lumber shall be made by the CONTRACTOR where it is necessary to meet definite dimensions shown on the drawings.

#### 146.2 REFERENCES

##### 146.2.1 ASTM

D 390	D 1625
D 391	D 1760
D 1032	D 1858
D 1272	D 1859
D 1325	D 2604
D 1624	D 2605

##### 146.2.2 AASHTO M 133

#### 146.3 OIL-TYPE PRESERVATIVE TREATMENT:

Preservatives under this specification shall be creosote, creosote-coal tar solutions, creosote petroleum solutions, or pentachlorophenol in petroleum oils, conforming to ASTM D 390, D 391, D 1858, D 1272, and/or AASHTO M 133, respectively, with petroleum oils per ASTM D 1859, D 2604, and D 2605 or any combination of above preservatives as approved by the ENGINEER.

#### 146.4 WATER-BORNE SALT PRESERVATIVES TREATMENT

146.4.1 Preservatives under this section shall conform to the requirements of ASTM D 1032, D 1325, D 1624, and D 1625.

146.4.2 Unless indicated otherwise on the plans, the amount of preservative to be retained shall conform to the requirements of ASTM D 1760.

#### 146.5 TREATMENT

146.5.1 The treating operations shall conform to the applicable requirements of ASTM D 1760 and/or AASHTO M 133.

146.5.2 Unless indicated otherwise on

the plans or in the Supplementary Specifications, the amount of preservative to be retained and the treating process to be used for the various types of service shall conform to the requirements established in the standards referenced in this section.

#### 146.6 PENETRATION

Penetration shall conform to the applicable specification or ASTM D 1760, unless otherwise indicated on the plans or Supplementary Specifications.

#### 146.7 INCISING

Timber of those species required to be incised by ASTM Specifications shall be incised before treatment only when it is 3 inches or more in nominal thickness and 4 inches or more in nominal width, as a means of securing penetration of the preservative. If such thickness is less than 4 inches, the material may be incised on the wide faces only, otherwise all four faces shall be incised.

#### 146.8 PENETRATION

Penetration shall conform to the applicable ASTM Specification listed in Subsection 146.6.

#### 146.9 FIELD TREATMENT OF CUT SURFACES

146.9.1 When sawing or drilling is necessary after plant treatment of creosoted materials, the cut surfaces shall be thoroughly brushed with 2 coats of hot coal tar creosote of the same kind used at the plant. If such hot application is not practicable, then a cold application shall be made.

146.9.2 In treating surfaces exposed when pile heads are cut off, the brush treatment shall be given with great care and thoroughness. A coat of pitch, asphalt, or similar material should then be applied over the creosote, followed by some protective sheet material such as metal, roofing felt, or saturated fabric fitted over the pile head and brought down the sides far enough to protect against damage to the top treatment.

146.9.3 Lumber sawed or cut after salt treatment shall have the cut surfaces well-brushed with the same preservative that was used at the plant.

#### 146.10 INSPECTION

146.10.1 All material treated under this specification will be subject to inspection for compliance with the prescribed requirements.

146.10.2 Acceptance of material at any step from vendor through treatment, storage, and incorporation into the work, will not bar subsequent rejection for damage of any nature. All material so rejected shall be replaced at the expense of the CONTRACTOR.

146.10.3 All facilities and supplies that may be required for testing and for ascertaining compliance with the provisions of this specification relative to the treatment of the material shall be furnished by the treatment plant for use by the ENGINEER. Duly authorized representatives of the ENGINEER shall be given free access to all parts of the plant in which any work is being done and to all records pertaining to the performance of such work.

#### 146.11 HANDLING AND PROTECTION OF TREATED MATERIAL

Material that is stored on the site of work prior to its use shall be neatly piled on skids to raise it from the ground and shall be protected from the sun and weather. When so required, the material shall be accessible for inspection.

#### 146.12 MEASUREMENT AND PAYMENT

Wood preservatives where called for shall be considered a subsidiary item. No measurement and payment will be made.